

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Masaru NUMANO

SERIAL NO: New Application

GAU:

FILED: Herewith

EXAMINER:

FOR: OPTICAL SEMICONDUCTOR DEVICE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment form is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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22850

DOCKET NO.: 242056US2

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STATEMENT OF RELEVANCY

Reference AA on Form PTO-1449:

A voltage clamp circuit for switched inductive loads is disclosed. In the box 70 of FIG. 1, the Zener diode 71 is shown to be connected in series with the diode 72 which connects the load side of the switch back to the switch control circuit.

Reference AO on Form PTO-1449:

A surge absorbing circuit including a Zener diode 3 and a diode 5 is disclosed. When a power MOSFET is switched off, the inductive load generate high voltage. The high voltage is clamped by the circuit. However, this surge absorbing circuit does not concern with an optical semiconductor device.

Reference AP on Form PTO-1449:

An electrostatic discharge protective device is disclosed. The base and the emitter of a parasitic PNP transistor that a Zener diode includes are biased reversely with a diode and a constant voltage. However the behavior of the parasitic PNP transistor does not concern with and irradiation of a light.

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

242056US2

SERIAL NO.

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LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Masaru NUMANO

FILING DATE

Herewith

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4,658,203	04/14/87	William P. FREYMUTH			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	10-136564	05/22/98	Japan (with English Abstract)		X
	AP	6-216321	08/05/94	Japan (with English Abstract)		X
	AO					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.